

RCA89648

Ser. No. 10/031,020
Amdt. dated June 6, 2005
Reply to Office action of February 7, 2005

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of the Claims

1. (currently amended) Method of performing carrier acquisition of a television signal having a pilot tone centered around a carrier frequency, the method comprising:
 - amplifying said television signal using a first amplification level in response to a control signal; and
 - acquiring the carrier frequency from said amplified television signal; and
 - amplifying said television signal, in response to [after] acquiring the carrier frequency, using a second amplification level, where said first amplification level is greater than said second amplification level.
2. (original) The method of claim 1, characterized in that said amplifying comprises:
 - setting a reference power value to a high value; and
 - increasing a value of said control signal if said reference power value is greater than a power value of said television signal, where the amplifying using said first amplification level occurs in response to the increased value of said control signal.
3. (original) The method of claim 2, characterized in that said setting occurs in response to an input command.
4. (original) The method of claim 1, characterized in that said acquiring comprises: detecting said pilot tone from said television signal.

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5. (original) The method of claim 1, characterized in that said amplifying after said acquiring comprises:

setting a reference power value to a low value, said setting is provided in response after acquiring the carrier frequency;

decreasing a value of said control signal if said reference power value is less than a power value of said television signal, where the amplifying using said second amplification level occurs in response to the decreased value of said control signal.

6. (original) The method of claim 1, characterized in that said amplifying comprises increasing a gain of an intermediate frequency (IF) module.

7. (original) The method of claim 1, characterized in that said amplifying after said acquiring comprises decreasing a gain of an intermediate frequency (IF) module.

8. (original) The method of claim 1, characterized in that it further comprises generating a carrier lock signal upon acquiring the carrier frequency, where said amplifying using said second amplification level occurs in response to said carrier lock signal.

9. (original) The method of claim 1, characterized in that said television signal comprises a received vestigial sideband (VSB) modulated signal containing high definition video data.

10. (currently amended) An apparatus for performing carrier acquisition of a television signal having a pilot tone centered about a carrier frequency, the apparatus comprising:

a tuner circuit for amplifying said television signal using a first amplification level and amplifying said television signal using a second amplification level, where said first amplification level is greater than said second amplification level;

a carrier recovery circuit for acquiring the carrier frequency from said amplifier television signal; and

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a control circuit, coupled to said tuner and said carrier recovery circuit, for generating a control signal and generating said control signal in response to [after] said carrier recovery circuit recovers the carrier frequency.

11. (original) The apparatus of claim 10, characterized in that said control circuit comprises an automatic gain control (AGC) controller. .

12. (original) The apparatus of claim 10, characterized in that said AGC controller comprises:

a processor for setting a reference power value to a high value; and
a detector, coupled to said processor, for increasing a value of said control signal if said reference power value is greater than a power value of said television signal, where said tuner circuit amplifies said television signal using said first amplification level in response to the increased value of said control signal.

13. (original) The apparatus of claim 12, wherein said processor sets said reference power value to a low value after recovery of the carrier frequency, and said detector decreases the value of said control signal if said reference power value is less than said power value of said television signal, where said tuner circuit amplifies said television signal using said second amplification level in response to the decreased value of said control signal.

14. (original) The apparatus of claim 10, characterized in that said tuner circuit comprises an intermediate frequency (IF) module.

15. (original) The apparatus of claim 10, characterized in that a gain of said tuner circuit is increased upon receipt of the increased value of said control signal.

16. (original) The apparatus of claim 10, characterized in that a gain of said tuner circuit is decreased upon receipt of the decreased value of said control signal.

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17. (original) The apparatus of claim 10, characterized in that said television signal comprises a received vestigial sideband (VSB) modulated signal containing high definition video data.